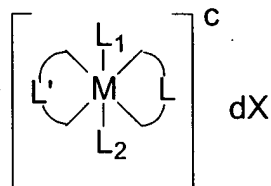


In the Claims:

Please cancel Claims 2-48, such that the Claims are as set forth below.

1. (Original) A transition metal complex having the formula:



wherein c is a negative, neutral, or positive charge represented by -1 to -5, 0, or +1 to +5, respectively;

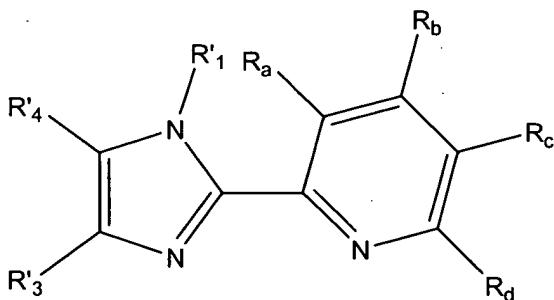
d is an absence or a number of counter ions X represented by 0 or 1 to 5, respectively;

M is cobalt, iron, osmium, ruthenium, or vanadium;

L₁ is a substituted or an unsubstituted heterocyclic nitrogen-containing ligand;

L₂ is a negatively charged ligand; and

L and L' are independently selected from a group consisting of:



wherein R'₁ is a substituted or an unsubstituted alkyl, alkenyl, or aryl;

R_a and R_b are independently -H, -F, -Cl, -Br, -I, -NO₂, -CN, -CO₂H, -SO₃H, -NHNH₂, -SH, -OH, -NH₂, or substituted or unsubstituted alkoxy carbonyl, alkylaminocarbonyl,

dialkylaminocarbonyl, alkoxy, alkylamino, dialkylamino, alkanoylamino, arylcarboxamido, hydrazino, alkylhydrazino, hydroxylamino, alkoxylamino, alkylthio, alkenyl, aryl, or alkyl;

R'_3 , R'_4 are independently -H, -F, -Cl, -Br, -I, -NO₂, -CN, -CO₂H, -SO₃H, -NHNH₂, -SH, -OH, -NH₂, or substituted or unsubstituted alkoxycarbonyl, alkylaminocarbonyl, dialkylaminocarbonyl, alkoxy, alkylamino, dialkylamino, alkanoylamino, arylcarboxamido, hydrazino, alkylhydrazino, hydroxylamino, alkoxylamino, alkylthio, alkenyl, aryl, or alkyl, or a combination of R'_3 and R'_4 forms a saturated or unsaturated 5- or 6-membered ring; and

R_c , and R_d are independently -H, -F, -Cl, -Br, -I, -NO₂, -CN, -CO₂H, -SO₃H, -NHNH₂, -SH, -OH, -NH₂, or substituted or unsubstituted alkoxycarbonyl, alkylaminocarbonyl, dialkylaminocarbonyl, alkoxy, alkylamino, dialkylamino, alkanoylamino, arylcarboxamido, hydrazino, alkylhydrazino, hydroxylamino, alkoxylamino, alkylthio, alkenyl, aryl, or alkyl, or a combination of R_c and R_d forms a saturated or unsaturated 5- or 6-membered ring.

2-48 (Cancelled)